

Tape Measure Basic Step Up - SDK File & Virtualenv

This setup guide is for Windows 10/11 & Mac users only!

System Requirements:

- Must have any python version above 3.6 (3.8 recommended).
 - No python? No problem! Download it [here](#).

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- You also must have a python code editor such as Virtual Studio Code (my choice but up to you).
 - Download VS Code [here](#). Make sure you install the one for your OS.
 - Please be sure to install the python extension.

*Click on the extensions button

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*Type “python” into the search bar and it should be the first option by Microsoft

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Spot SDK File:

- Open Command Prompt and paste in the command:
 - `git clone https://github.com/boston-dynamics/spot-sdk.git`
- This should automatically install and unzip the Spot SDK
- If this doesn't work please install Git bash [here](#).
- If you're on Mac install homebrew by pasting:
 - `/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"`
 - If you don't want to install it there is a manual way to do it further down.

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- After that we need to open the SDK as a workspace in Vs Code.
 - (Skip this and do your own thing if you're using a different software).
- To do this we need to locate the spot-sdk file. It will be located at where ever you indicated before the git clone command. In this example case it's located in drive C -> folder user -> Caicheng Li; giving you the address: C:\Users\Caicheng Li.
- If your on Mac open Finder -> Home -> spot-sdk
- Left click on the file and there should be an option to "Open with Code".
- If your on windows 11 you have to click on "show more options"
- If your on Mac open VS code and select open folder then refind the spot-sdk and open that file in vs code.

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After opening It should look something like this, with the contents of the folder on either the left or right-hand side of the window.

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- This is how you will access the spot-sdk (more on why it's important in a later doc)

If this for some reason does not work for you, you can manually install it by going [here](#).

*Click on the green “Code” button

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*Then click Download ZIP

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*After it finishes downloading, right-click on the folder in your download and click on extract all

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*Open the extracted folder and right-click it to “Open with Code.”

*It should look something like this, with the contents of the folder on either the left- or right-hand side of the window.

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- This is how you will access the spot-sdk (more on why it's important in a later doc)

Pip Installation:

- Open command prompt again.
- To check if you have pip installed use the command:
 - `py.exe -3 -m pip --version`

For Windows 11/Mac users:

- If you're on windows 11 use the command:
 - `python.exe -m pip --version`
- If you're on Mac use:
 - `python3 -m pip --version`
 - Pip comes preinstalled with python 3.4 and above so you should be good.
- It should always return a pip version number such as 19.2.1 (Version doesn't matter).
- If it pops up with nothing or an error contact one of the leads.

Virtualenv

- This is the program you'll run commands in so it's important!
- Open up command prompt again and paste in:
 - `py.exe -3 -m pip install virtualenv`
- Then paste:
 - `py.exe -3 -m virtualenv my_spot_env`
- Then:
 - `.\my_spot_env\Scripts\activate.bat`

For Windows 11/Mac users:

- If your on windows 11 paste in:
 - `python.exe -m pip install virtualenv`
- Then:
 - `python.exe -m virtualenv my_spot_env`
- Then:
 - `.\my_spot_env\Scripts\activate.bat`

- If your on Mac paste in:
 - `python3 -m pip install virtualenv`
- Then:
 - `python3 -m virtualenv my_spot_env`
- Then:
 - `source my_spot_env/bin/activate`

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- To go out of the virtual environment type in:
 - `deactivate`
- This should get rid of “(my_spot_env)”

Spot Packages

- Make sure you're NOT in the virtual environment.
- Paste in the command:

- `python.exe -m pip install --upgrade bosdyn-client bosdyn-mission bosdyn-choreography-client`
- For Mac users:
 - `python3 -m pip install --upgrade bosdyn-client bosdyn-mission bosdyn-choreography-client`
- To verify you've installed correctly type in:
 - `python.exe -m pip list --format=columns | findstr bosdyn`
- For Mac users:
 - `python3 -m pip list --format=columns | grep bosdyn`

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- Next go into your python terminal by typing
 - `python.exe`
- Mac:
 - `python3`
- Then paste:
 - `import bosdyn.client`
- Then:
 - `help(bosdyn.client)`

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After this you're all set up! If you run into any trouble while setting up contact @Cai or @Dwight Howard, II on Discord.

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